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**U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 5
POLLUTION REPORT**

I. HEADING

DATE: March 8, 2002

SUBJECT: Downers Grove Ground Water Investigation

FROM: Steve Faryan, On-Scene Coordinator (OSC), U.S. EPA, ERB-RS2, Chicago, IL

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POLREP NO: Initial POLREP- **TIME CRITICAL REMOVAL ASSESSMENT**

II. BACKGROUND

Site ID No.:
Contract/Delivery Order Number: N/A
Response Authority: CERCLA
CERCLIS ID Number: tbd
NPL Status: Non-NPL
State Notification: Illinois EPA notified
Latitude/Longitude: 41° 47' 32.9" N/ 88° 2' 40.0" W
Start Date: February 13, 2002
Demobilization Date: TBD
Completion Date: TBD

III. SITE HISTORY

On 11 October 2001, U.S. EPA received a request from the Illinois Environmental Protection Agency (IEPA) to assign the appropriate personnel to conduct a time critical removal assessment and possible removal action at the Downers Grove Groundwater Investigation site located in unincorporated Downers Grove, DuPage County, Illinois.

Between the spring and fall 2001, IEPA performed a groundwater investigation just east of I-355 near Downers Grove. The investigation was in response to citizen concerns related to recent private well sampling in neighboring Lisle. The investigation consisted of three rounds of groundwater sampling throughout the area. Approximately 495 private wells were sampled and analyzed for levels of volatile organic chemicals (VOCs). Sample results indicated elevated levels of tetrachlorethylene (PCE),

trichloroethylene (TCE), and other related VOCs. Approximately 52% of samples collected during Round 1 and Round 2 contained PCE or TCE above 5 parts per billion (ppb) (the federal drinking water standards and the State of Illinois Maximum Contamination Limit [MCL]), and approximately 7% of the samples collected during Round 3 contained PCE or TCE levels above 5 ppb.

In October 2001, Parsons Engineering Science, Inc. (Parsons) performed a Cone Penetration Test (CPT) investigation within the Ellsworth Industrial Park for IEPA. The investigation used a CPT rig to log the shallow lithology in the area and collect groundwater samples at a variety of depths above the bedrock in order to identify the source(s) of the chlorinated solvent releases. The area of investigation included only the southern and southeastern-most portions of the industrial park along portions of Wisconsin, Elmore, and Inverness Avenues. During the investigation, Parsons was able to collect three groundwater samples from two boring locations using the CPT sampler. Difficulties were encountered due to low groundwater inflow rates, which the tight clay soil found in the area of investigation likely caused. In the areas where the CPT sampler could not be used, Parsons installed temporary 3/4 inch polyvinyl chloride (PVC) piezometers. The piezometers were screened over intervals ranging from approximately 20 to 35 feet. Twenty-eight groundwater samples were collected from 27 separate sampling locations within the industrial park. Of the 28 groundwater samples, only one sample (CPT-07, from 74.7 - 72.9 feet below ground surface) contained TCE above the method detection limit.

IV. RESPONSE INFORMATION

A. Situation

1) Current Situation

On February 12, 2002, U.S. EPA OSC Steve Faryan, Weston START and WESTON subcontractors, ConTec began the field investigation in the Ellsworth Industrial Park. A field investigation was performed during a three week process in order to gain a more representative picture of the stratigraphy and shallow groundwater depths throughout the Ellsworth Industrial Park and surrounding areas. A total of 35 locations have been completed. Groundwater samples were collected and analyzed for VOCs during the field investigation in order to further delineate the chlorinated solvent plume within the overburden and to assist U.S. EPA in determining the source of the contamination. A total of 30 groundwater samples have been collected and 14 QA/QC samples. The geological investigation and groundwater sampling was performed using a Cone Penetration Testing (CPT) method. To monitor for the potential presence of soil gas vapors, START used a photo/flame-ionization detector (PID/FID) was used to collect readings just below the borehole surface after retraction of CPT tools and prior to borehole grouting.

2) Removal Actions Taken to Date

The following activities were conducted from February 13 through March 2, 2002:

- On 13 February 2002 ConeTec drilled at location CPT-62, CPT-63, CPT-48. START collected two groundwater samples at location CPT-63. No groundwater recovery at CPT-62 and CPT-48.
- On 14 February 2002 ConeTec drilled at location CPT-48, CPT-75, CPT-53. START collected two groundwater samples at CPT-75 and one groundwater sample from CPT 48 and 53.
- On 15 February 2002 ConeTec drilled at location CPT-49, CPT-51, CPT-56. START collected one groundwater sample at location CPT-51. No groundwater recovery at CPT-49 and CPT-56.
- On 18 February 2002 ConeTec drilled at location CPT-56, CPT-52, CPT-54. START collected one groundwater sample at location CPT-52. No groundwater recovery at CPT-56 and CPT-54.
- On 19 February 2002 ConeTec drilled at location CPT-57, CPT-78, CPT-41. START collected one groundwater sample at location CPT-41. No groundwater recovery at CPT-57 and CPT-78.

- On 20 February 2002 ConeTec drilled at location CPT-58. No groundwater recovery at CPT-58. Work activities ended early, because the Hydropunch broke.
- On 21 February 2002 ConeTec drilled at location CPT-66, CPT-65, CPT-64. START collected two groundwater samples at location CPT-66 and one groundwater sample from location CPT-65 and CPT-64.
- On 22 February 2002 ConeTec drilled at location CPT-55, CPT-79, CPT-50. START collected two groundwater samples at location CPT-79 and one groundwater sample at CPT-50. No groundwater recovery at CPT-55.
- On 26 February 2002 ConeTec drilled at location CPT-67, CPT-46, CPT-44. START collected one groundwater samples from each location.
- On 27 February 2002 ConeTec drilled at location CPT-72, CPT-45, CPT-43. START collected three groundwater sample at location CPT-43 and one groundwater sample at CPT-72. No groundwater recovery at CPT-45.
- On 28 February 2002 ConeTec drilled at location CPT-42, CPT-40, CPT-81. START collected two groundwater samples at location CPT-42 and one groundwater sample from CPT-40. No groundwater recovery at CPT-81.
- On 1 March 2002 ConeTec drilled at location CPT-80, CPT-70, CPT-71, CPT-69, CPT-68, CPT-73. START collected one groundwater sample at location CPT-71. No groundwater recovery at CPT-70. CPT-69, CPT-68 and CPT-73 were drilled only for logging purposes.
- On 2 March 2002 START tried to collect groundwater sample from peziometers at CPT-80 and CPT-70. CPT-80 and CPT-70 had no groundwater recovery, holes were grouted.

3) Enforcement: U.S. EPA has collected, reviewed and indexed file information from the IEPA information requests and has issued 104(e) information requests to facilities who were TCE and PCE users in the Ellsworth Industrial Park. Focused 104(e) information request letters have been prepared and will be sent out to select corporations within the industrial park to obtain more information.

B. Planned Removal Activities

None at this time.

C. Next Steps

- Validate and Review data
- Develop Cone Penetrometer Investigation Report.
- Conduct Sampling Activities on PRP properties.

V. COST INFORMATION

Estimated contractor costs as of March 2, 2002:

	<u>Amount Budgeted</u>	<u>Amount Spent</u>	<u>Remaining</u>
Weston START	\$ 70,000	\$ 50,000	\$ 20,000
Weston Subcontractor (Drillers)	\$ 60,000	\$ 55,000	\$ 5,000
U.S. EPA	N/A	\$ 12,000	

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report is written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

VI. DISPOSITION OF WASTES

N/A